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AUTHOR(S): antigens share a common structural motif
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Craig; Grey, Howard M.
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Denver, CO, 80206, USA
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AB The I-Ad binding patterns of a series of overlapping peptides derived from sperm whale myoglobin (residues 102-125) and influenza hemagglutinin (residues 121-146) were analyzed to determine whether the peptide regions predicted on the basis of structural similarity to be involved in I-Ad binding were in fact involved. In both cases, the I-Ad-interacting determinants contained the sequence motif postulated to be important for I-Ad binding. These data support the hypothesis that I-Ad mols. recognize a large library of antigens by virtue of common structural motifs present in peptides derived from phylogenetically unrelated proteins.

IT 116449-31-1

RL: BIOL (Biological study)

(I-Ad antigen binding by, structure in relation to)

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(FILE 'HOME' ENTERED AT 15:18:00 ON 05 APR 2007)

FILE 'REGISTRY' ENTERED AT 15:18:18 ON 05 APR 2007

L1 15 SEA ABB=ON PLU=ON MKWVFIVSILFLFSSAYS[GS][VL][FD][RK][RK]/SQS
P
L2 467027 SEA ABB=ON PLU=ON [FTY][ILVAM][LVAM][ST][IVAM]/SQSP
L3 414 SEA ABB=ON PLU=ON L2 AND SQL<11
L4 272 SEA ABB=ON PLU=ON L2 AND SQL<10
L5 84 SEA ABB=ON PLU=ON L2 AND SQL<9
L6 41 SEA ABB=ON PLU=ON L2 AND SQL<8
L7 13 SEA ABB=ON PLU=ON L2 AND SQL<7

FILE 'HCAPLUS' ENTERED AT 15:20:22 ON 05 APR 2007

L8 7 SEA ABB=ON PLU=ON L1
L9 14 SEA ABB=ON PLU=ON L7

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FILE 'REGISTRY' ENTERED AT 15:21:40 ON 05 APR 2007

D QUE L1
D L1 RN CN SQL KWIC NTE LC TOT

FILE 'HCAPLUS' ENTERED AT 15:22:08 ON 05 APR 2007

D QUE L8
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FILE 'REGISTRY' ENTERED AT 15:22:27 ON 05 APR 2007

D QUE L7
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FILE 'HCAPLUS' ENTERED AT 15:22:52 ON 05 APR 2007

D QUE L9
D L9 IBIB ABS HITRN TOT